

PHENIX WEEKLY PLANNING

5/29/2008

Don Lynch

Shutdown '08 Schedule

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Shutdown Prep

Mu Trigger, RPC Prototype Installation,
New Beampipe, CM Crane, Sta. 1 and MMN
Scaffolding Reviews
RPC Prototype C tests (in tent)
Install/field fit CM access stairs
Build MMN scaffolding
Build Sta. 1 N. scaffolding
MuTr Decapacitations (Sta. 1 N and MMN)
RPC Prototype D tests (in tent)
Design RPC installation fixtures &
MuTrigger FEE platforms
Prep work for Mutrgr platforms (water/elec)
Prep work for RPC proptotype install
move (7) MuID pipes
move gap 5 south cable tray

End of run Party



Done

All Done, Action Items in progress
in progress
in progress
in progress
in progress
6/2
Apr-May
in progress
May-June
May-June

May 30

Shutdown '08 Schedule, cont'd

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Prep RPC Proto, MuTrggr FEE N&S Racks Apr-July	
RPC engineering & safety review	~June 24
MuTrigger FEE N Install	July - Aug.
Install MuTrigger N cooling water & air	July - Aug.
RPC prototype gas system	July - Aug
Move shielding for RPC prototype installation	July - Sep
RPC prototype cable routing & support	July - Aug
Modify crystal palace & vapor barrier	July - Aug
Install MuTrigger FEE N platform&Rack	July 15 - Aug 1
RPC prototype install	Sep.-Oct. (RPC2 - PHENIX) (RPC3 - C. Pearson)
Install RPC prototype rack in tunnel south	Sep.
Install Mutrigger FEE's in MMS for RPC test	Sep.
Install MuTrigger FEE South platform	Sep.
Install MuTrgr S rack cooling & electric	Sep.
HBD Install	Sep.-Oct.
Connect electronics/gas/water/air for RPC	Sep. - Nov.
Install MuTrigger N& S racks	Sep. - Nov
PC1 west work (needs planning)	Sep. - Nov.
CM Crane Install	Oct.
DC East?/West Repairs	Oct. - Nov.
Replace tunnel shielding	Nov. (C. Pearson)

Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)
Gap 5 north piping and cable tray re-loc.
Gap 2 north cable tray & crate re-mounts
Fan Tray maintenance
Prep for shutdown 2009
Prep for run 9
Close shield wall start shifts
Start physics

Oct. - Nov
Oct. - Dec.
Oct. - Dec
Oct. - Dec.
Nov. - Dec
Dec
Dec.
Jan 1



Shutdown '08 Electrician Work

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- 1) Upgrade Crane switch: arc flash mitigation-remotely operated contactor which will feed the IR crane disconnect switch
- 2) Install HVAC cooling and/or fan power circuits into RPC tent. Install fans/cooling units.
- 3) Run Power to new MuTrgr FEE racks on MMN and MMS
- 4) Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks.
- 5) Install power feeds to RPC north & south tunnel racks from IR power panels.

NOTE: MuTr north power panel has no available breakers to feed north tunnel racks (south panel has spare breakers for use). More engineering analysis is required to determine if the north power panel should be increased in size or for installation of a sub panel branch can be accomplished.

- 6) Assist in signal cable installation for MuTr/RPC upgrades as necessary.
- 7) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
- 8) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

Work Permit Requirements

- CM Crane Installation
- RPC Prototype Installation
- HBD re-installation
- PC1 Repairs

These WP's not needed until Sept.

(More will be needed - to be added to the list as appropriate)

Shutdown Work \$\$\$

PHENIC Engineering and Technical Support Group

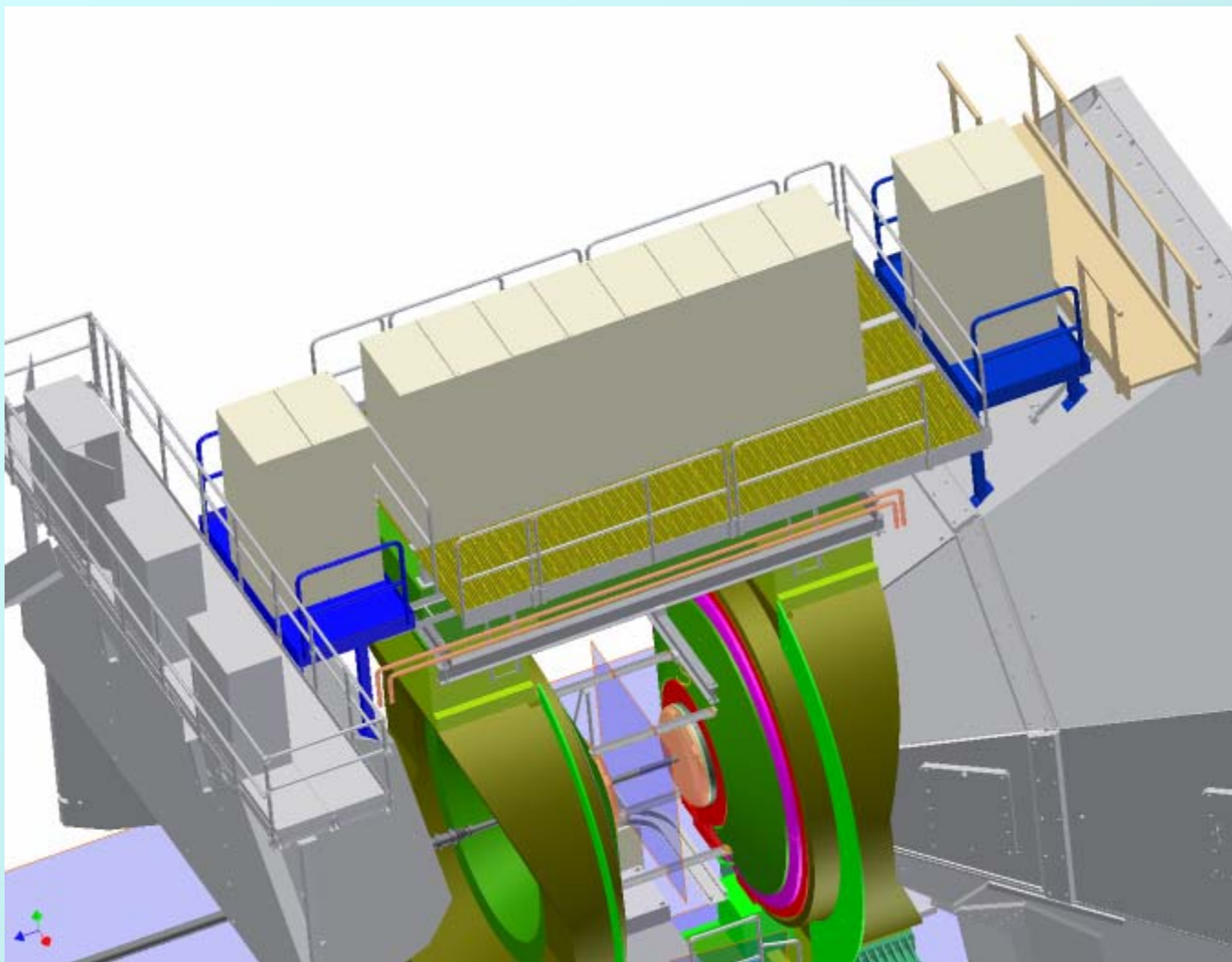


Spreadsheets updated, please review/correct/return to D. Lynch ASAP. Next Integration meeting tomorrow

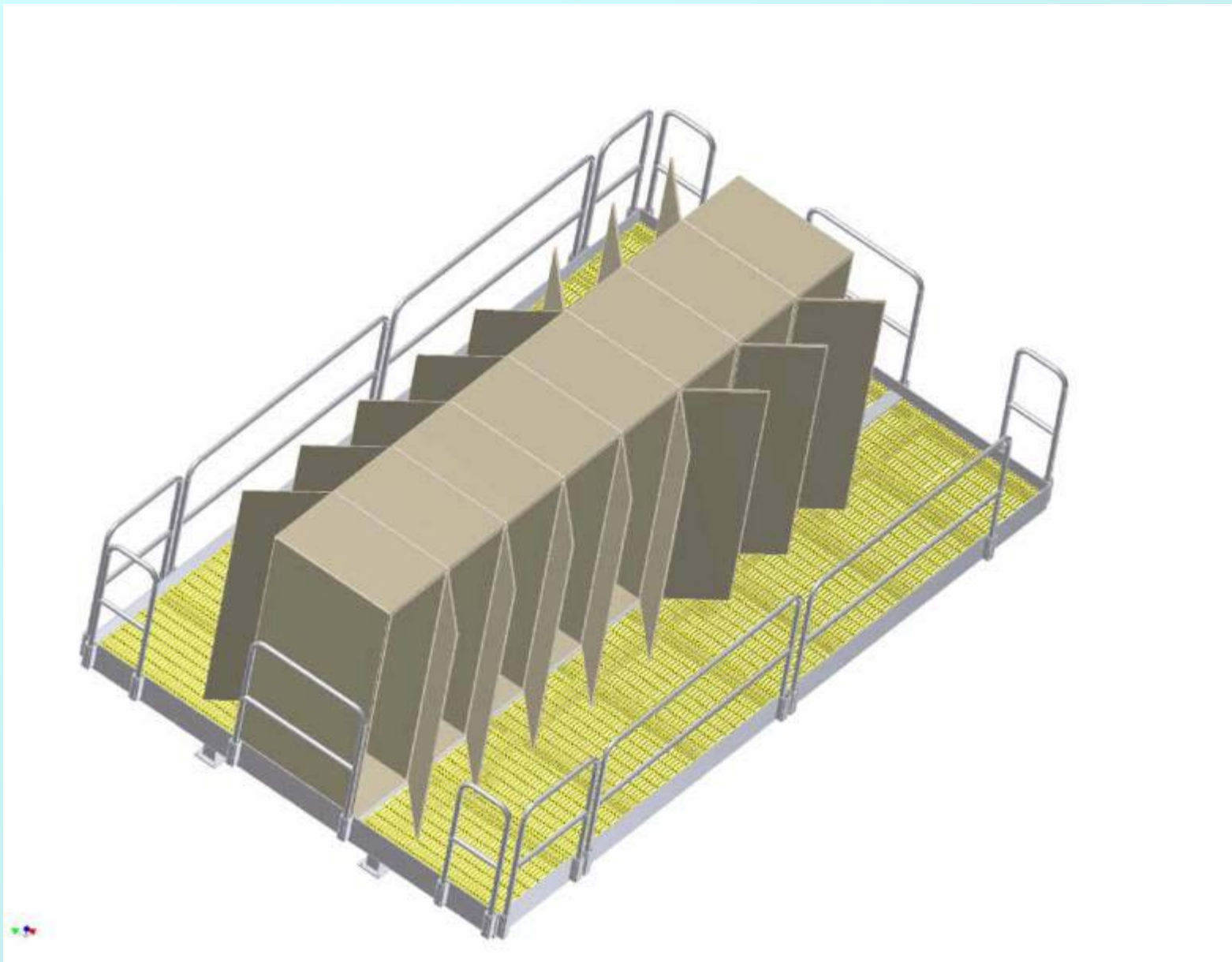
Projects Include:

1. CM Crane
2. New 40 mm ID beampipe
3. RPC Factory
4. RPC Prototype Installation
5. RPC Final Installation
6. MuTrigger FEE Upgrade
7. CM Access Stairs
8. MuTr Decapitations
9. Gas House Reorganization maintenance
10. Bridge Rework
11. HBD Re-installation
12. DC East & West Repairs
13. PC1 Repair
14. Rack room UPS upgrade
15. Bridge Power upgrade
16. Rack Room Update
17. Detector Rack Fan tray replacement
18. Safety System Upgrade
19. Cooling Water system upgrade
20. DAQ/Trigger Upgrade
21. DCM II Development
22. VTX support
23. FVTX support
24. NCC support

MuTrgr North FEE Rack Platform



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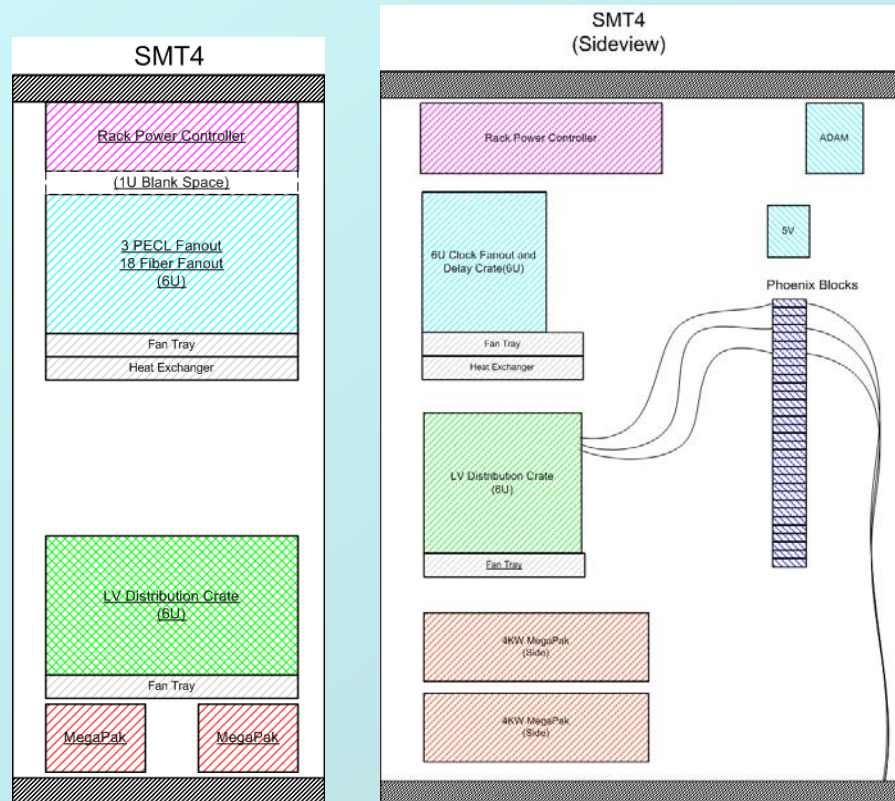
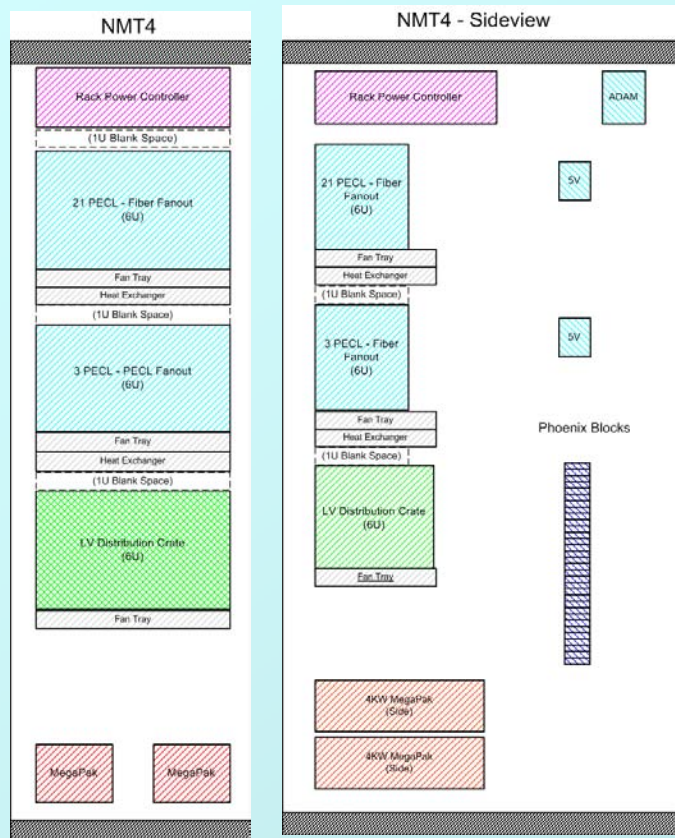


North

MuTrigger Racks

South

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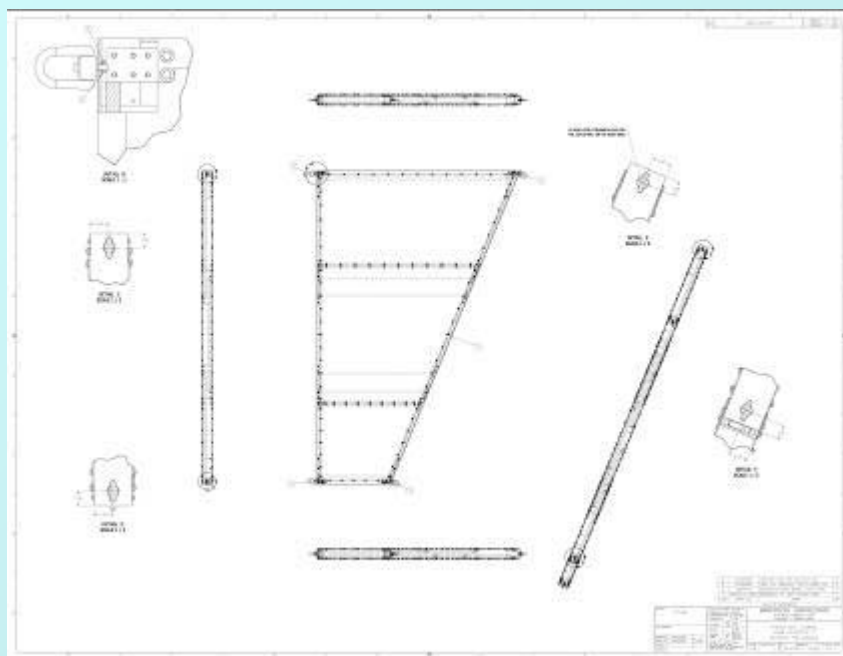
Mike L. & Frank have begun prepping these. Need info on RPC prototype rack.

RPC Prototype

Rec'd dim's and lifting points from Larry B.

Need to decide on prototype orientation and alignment for Sta 1 & 2 based on absorber location.

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RPC Factory Support, cont.

(2) ~3 Ton thru-the-wall AC's available from CA-D

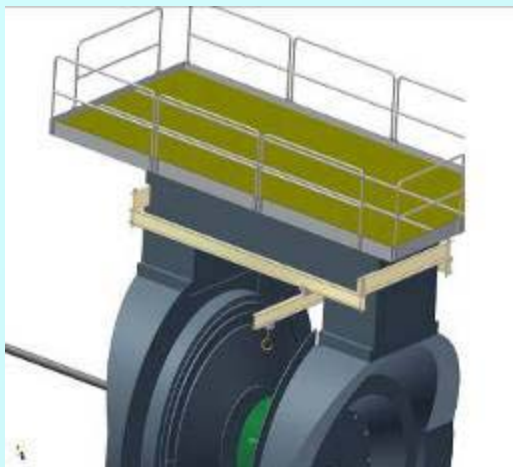
208V Need isolated electrical source

Supplemental portable 1-1/4 ton unit ordered

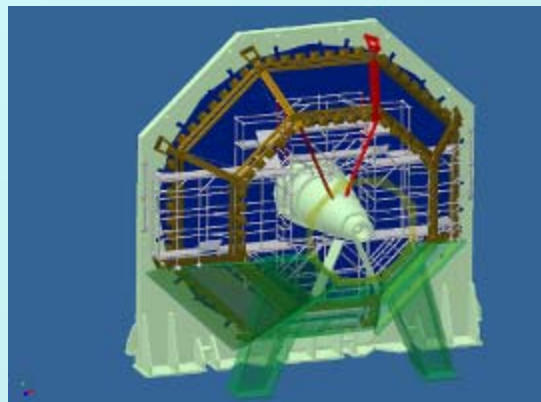
Storage Shelving: 2 additional sets rec'd. Assembly is done.



Combined CM Crane, MMN & Station 1 scaffolding



Crane installation
Postponed until fall



Station 1 components rec'd. CS items in progress

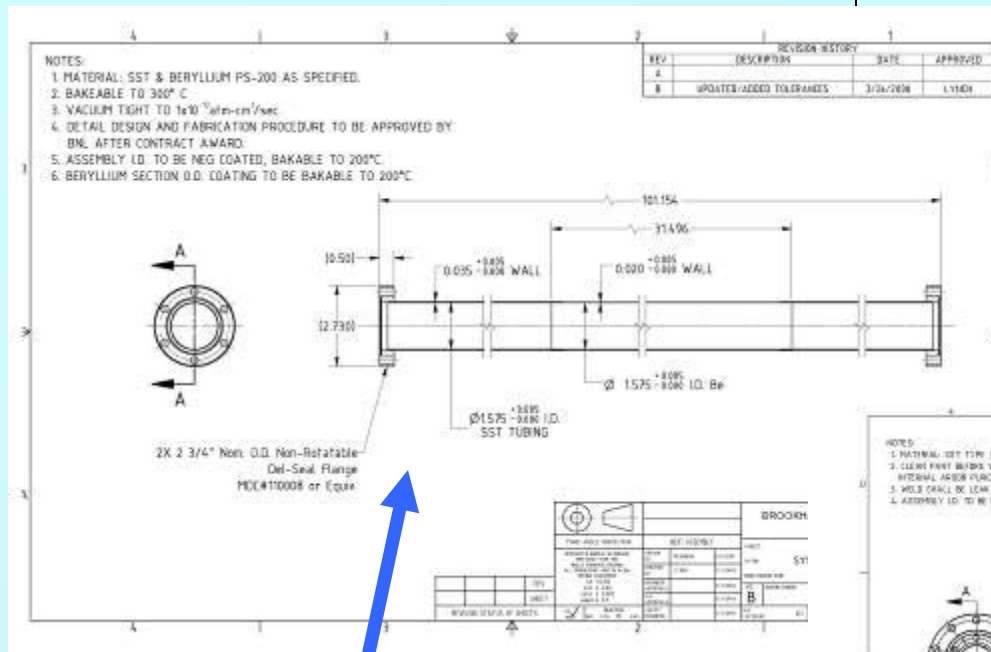
WP is approved

Station 2/3 construction is underway

New Beampipe Design & Review

BP designs at SAES for NEG quote. Meet w/ Brush Wellman 5/19

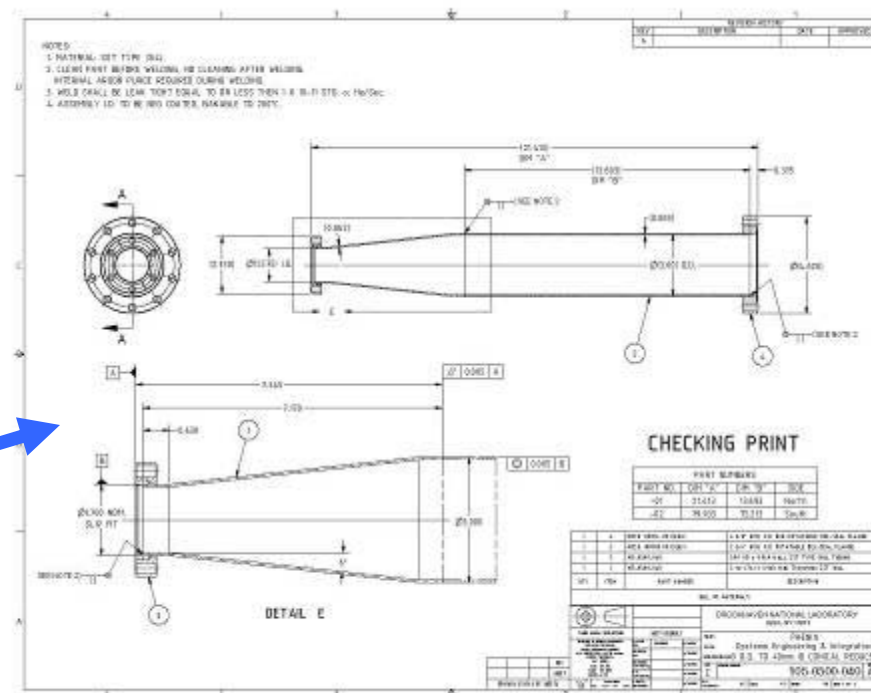
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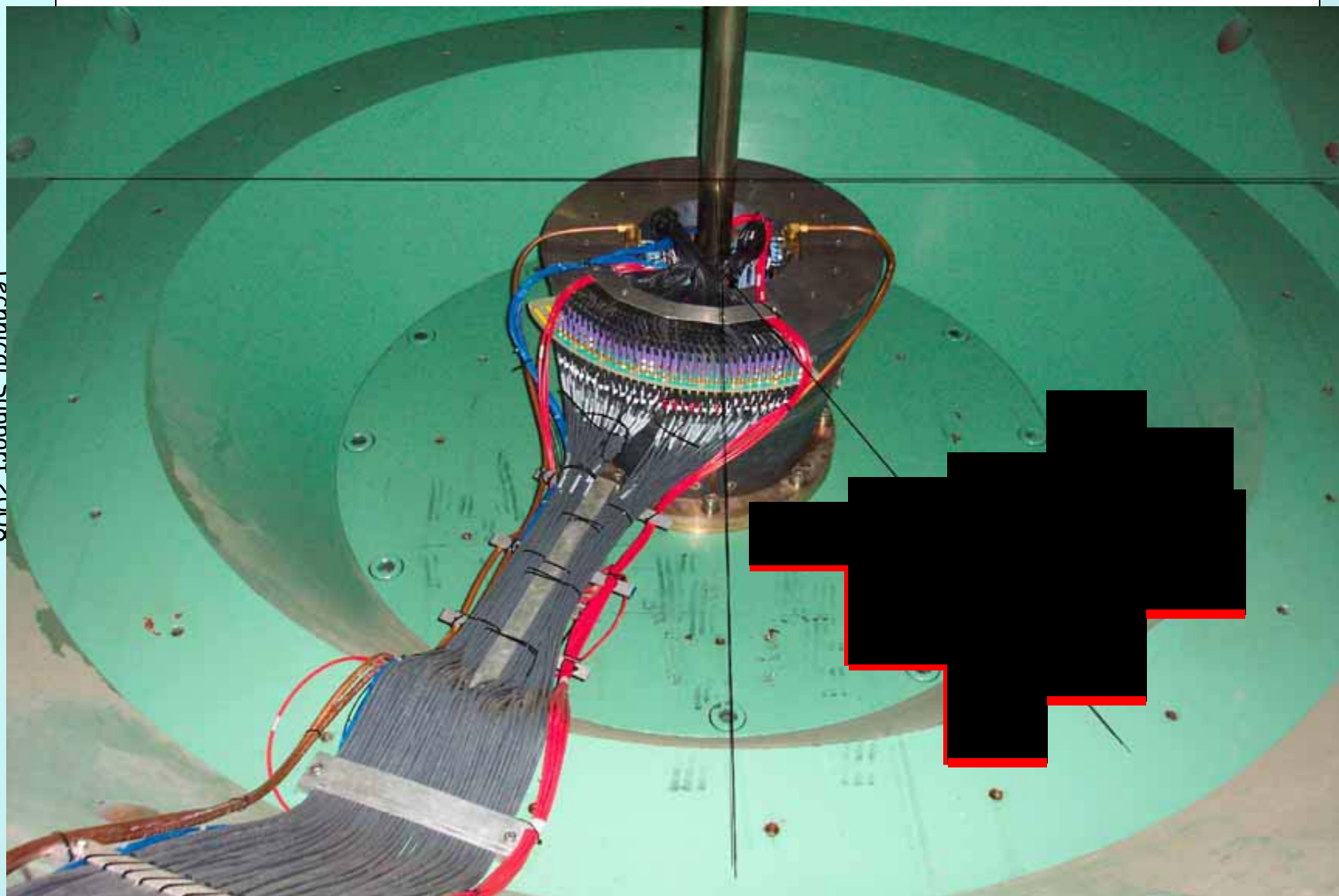
SS/Be central beampipe

1-5/8" to 3" transitions

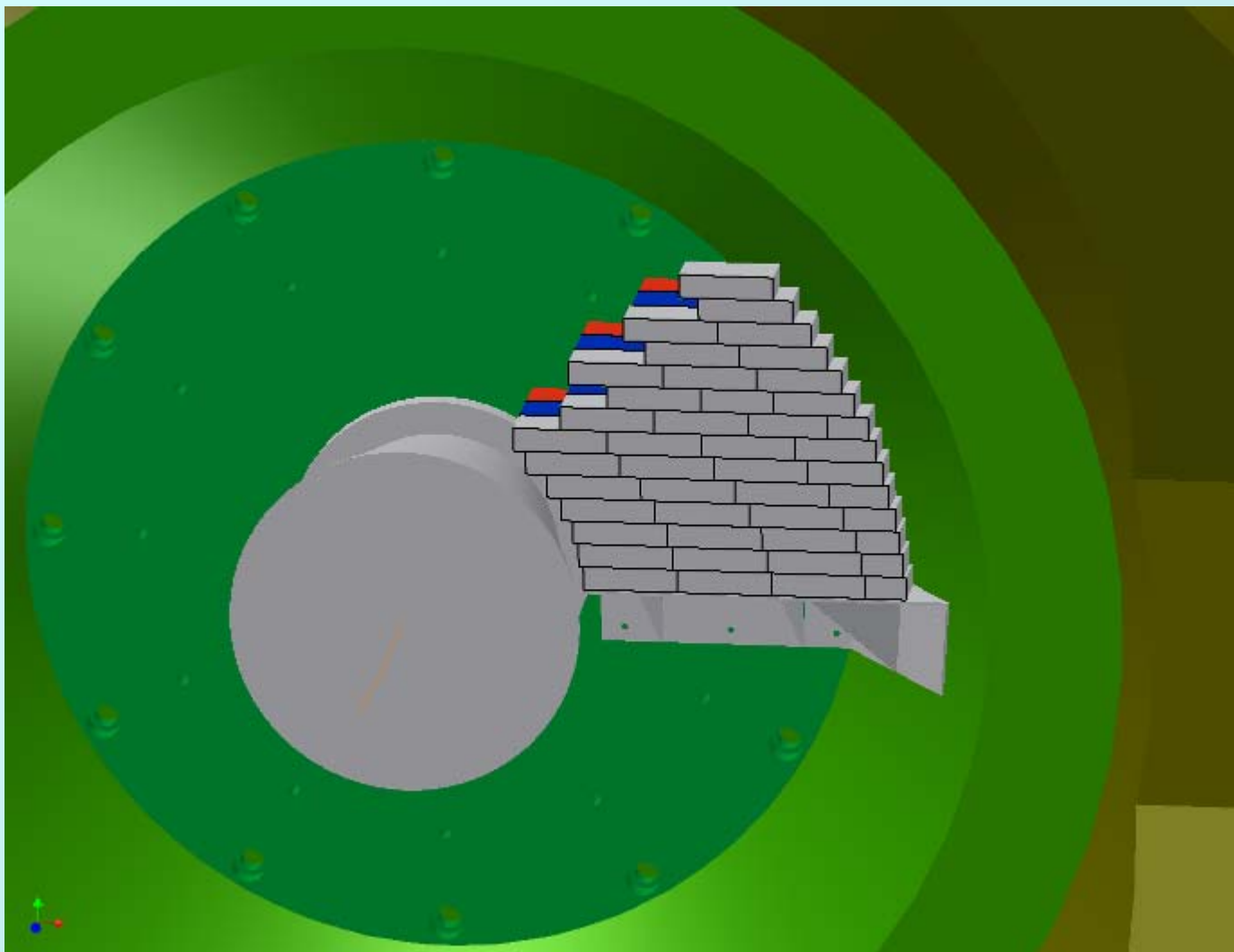
Drawings Done, C-A getting Quotes for NEG coating



Shelf & Pb brick concept

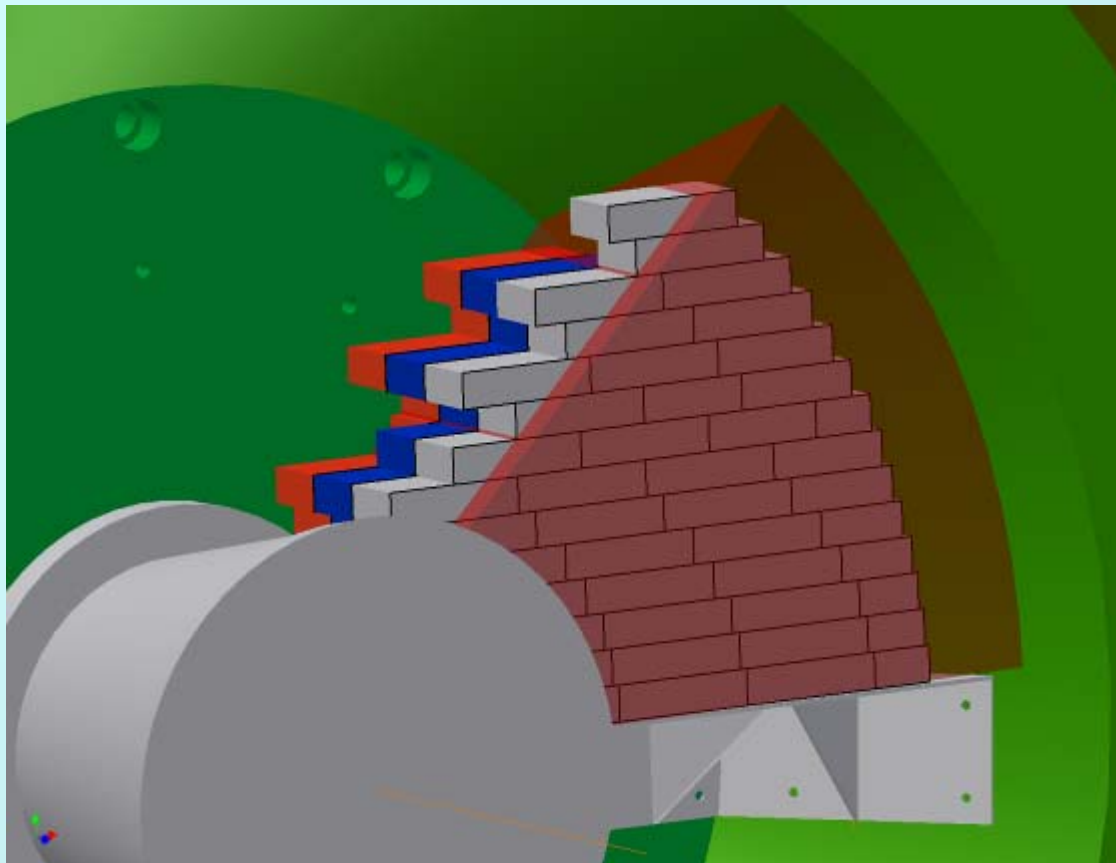


RPC Absorber Concept



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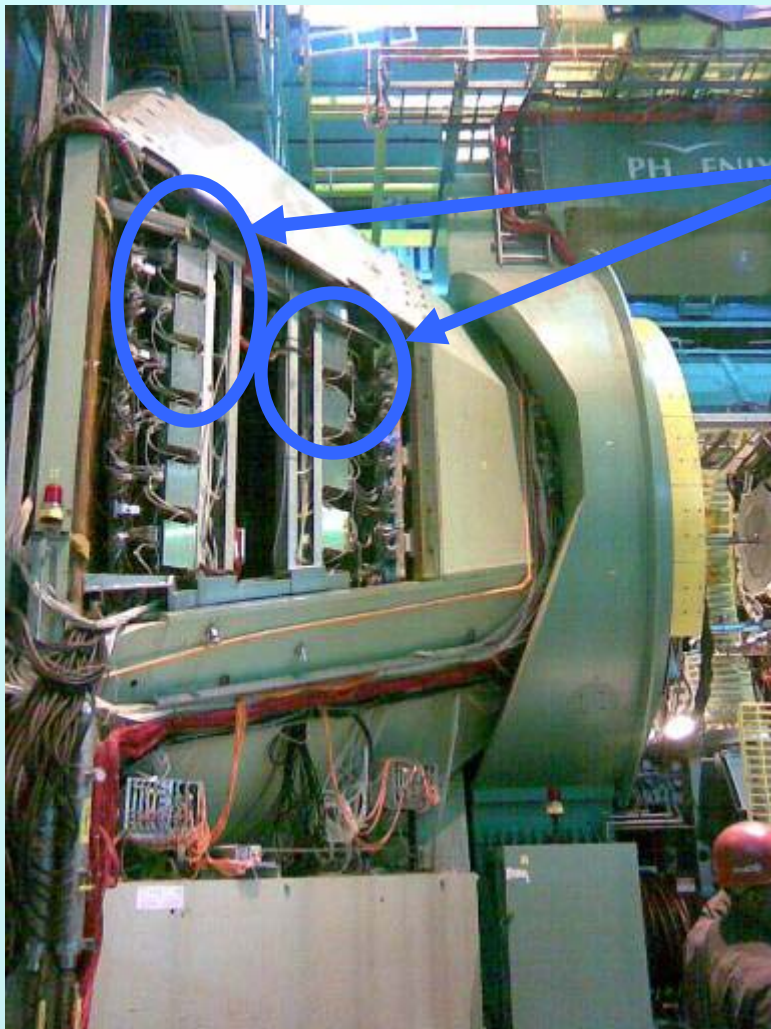
RPC Absorber Concept



Uses 112 2x4x8
PB bricks, 22
need to be cut

12 inches deep
(RPC group
requested 35 mm
(13.8 in))

MuTrigger FEE upgrades in MMS



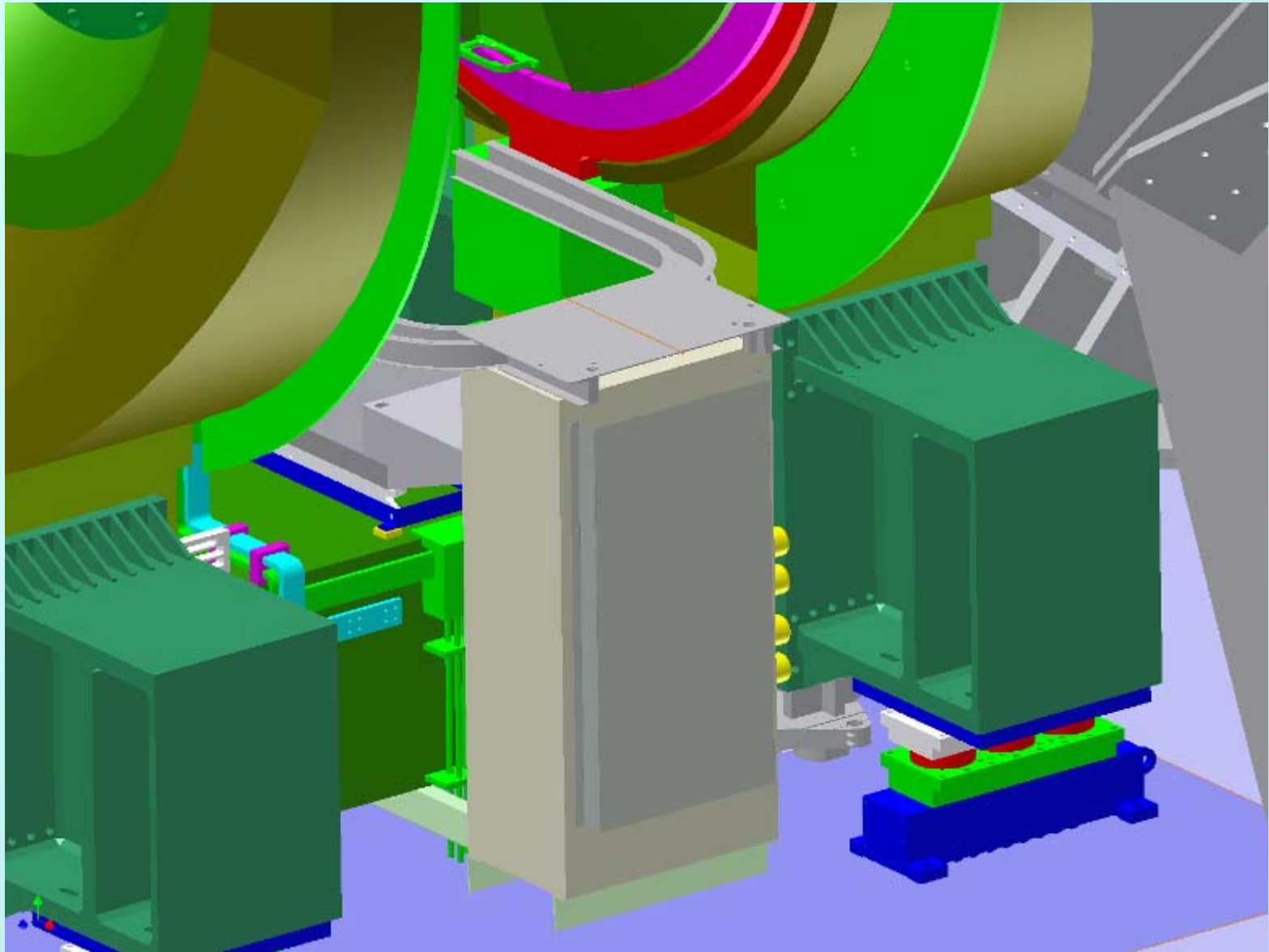
To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

We will develop a plan to access these for installation and testing from manlift. Plumbing and cabling are accessible from manlift.

CM Access

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1: Electrical Safety: May is Electrical Safety Month (Doe & NFPA)

BNL Electrical Safety Program Area web site has info on BNL electrical safety requirements:

http://www.bnl.gov/esh/shsd/Programs/Program_Area_Electrical_Safety.asp

e.g. rules for using power strips and extension cords

2. BNL vs. C-AD TLD requirements

BNL: GERT training sufficient

C-AD: Rad Worker I required

Compromise: List of PHENIX and RPC personnel who will be working in the tunnel during shutdown.

These will be issued temporary TLD's and blue pass cards for shutdown period only. Anyone who needs to access tunnel during run will need Rad Worker I.

3. A little notice before turning out the lights in the IR is appropriate.

4. New SBMS on documentation control and record keeping.

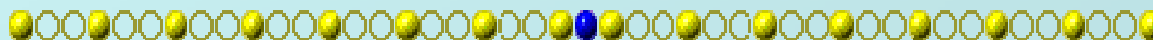
Where To Find PHENIX Engineering Info

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Welcome Summer!! (meteorological)
begins on Sunday 6/1

Links for the weekly planning meeting slides, long term planning, pictures, videos
and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm